

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: July 28, 2005

Inspector: Don Ukers

Location: 115 kV Underground Route

Storm/

Rain Event: The only observable precipitation the area received since the last inspection was between 0.23-0.43" on 7/27 posted by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction Bethel Educational Park, Bethel	- Trenching and ductwork/ installation continues in the Bethel Educational Park under the existing ROW in the school yard. Caisson drilling is complete and structure foundations have been poured in both locations but the structures are not yet under construction. 7/28/05 - A large amount of bare soil remains the southern end of the grounds where the transition structure foundation was placed. 7/28/05	- Erosion controls in this area require some attention and there are some issues to correct. See erosion control, wetlands, and spills and storage sections for more specific information. 7/28/05
Hoyts Hill Transition Structure	- The caisson drilling for the transition structure here is underway and the access road is installed. Several issues remain to be repaired here. 7/28/05	- See erosion control section for site specific information. 7/28/05
Gallows Hill Road and Rt. 107 Lonetown Rd, Redding	- Ductwork/installation is ongoing near the Gallows Hill Road and Lonetown Rd (Rt. 107 intersection). Trenching and rock excavation is also underway near #186 Gallows Hill. 7/28/05	- Activities seem contained on the roadway for the most part but a few areas require some attention and repair. See erosion control and wetland sections for more specific information. 7/28/05

Areas of Inspection	Observation	Recommended Action
Rt. 58, Bethel	<ul style="list-style-type: none"> - Concrete pouring and flowfilling for the trench/conduit installation was occurring along Rt. 58 near Hoyts Hill Rd. 7/28/05 - A vault installation is ongoing in the roadway shoulder near the Steck nursery. 7/21-7/28/05 	<ul style="list-style-type: none"> - Activities are fairly well contained to the roadway. See the erosion control section for more information. 7/28/05
Broad Street and Rt. 7 , Norwalk	<ul style="list-style-type: none"> -No active work was observed near Broad St but work was scheduled to move towards the intersection with Main Ave. 7/28/05 	<ul style="list-style-type: none"> -Activities are fairly well contained to the roadway however a few repairs should be made. See the erosion control section for more information. 7/28/05
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> - For the most part, silt fence has been well installed in all locations where the work is located adjacent to wetlands and soils are being handled appropriately. A few issues were noted. 7/28/05 - Some repairs have been made as recommended but other areas require attention. 7/28/05 	<ul style="list-style-type: none"> - Several areas require maintenance or additional controls or attention as soon as possible. - Continue to be proactive in maintenance as necessary. See below for site-specific issues. 7/28/05
Bethel Educational Park	<ul style="list-style-type: none"> - The silt fence along the ROW and structure foundation near the RT Johnson School continues to be in fairly good shape with the ROW backfilled and sediment pulled back. One spot near the caisson/foundation has been overtopped. 7/28/05 - The end of the ROW near Bethel Middle School near the foundation has a large amount of bare soil. The fence here was repaired in the most impaired spot, but a second row of fence has to be brought up to the first to encompass an area of disturbance. 7/28/05 	<ul style="list-style-type: none"> - Keep the controls in good repair until the ROW is revegetated and repair the impacted area. Also, avoid piling brush or cleared vegetation in any potential wetland areas. 7/28/05 - Complete the fence coverage and restore the area as soon as possible to prevent further sedimentation. 7/28/05

Areas of Inspection	Observation	Recommended Action
Bethel Educational Park continued	<ul style="list-style-type: none"> - Silt fence along the ROW leading to this point is in need of repair and toeing-in in several locations. The most noticeable is behind the riprap pile where a large amount of water has flowed down the steep grade here. 7/21-7/28/05 Repairs were also needed in the immediate vicinity of the active trench. Erosion was noted beyond the fence. 7/28/05 - A stockpile was noted at the ROW edge right near the Middle School. It was not within silt fence limits and at the edge of a steep grade. 7/21/05 It was not confirmed if this has occurred. 7/28/05 -A concrete washout station has been constructed near the RT Johnson school. 7/28/05 	<ul style="list-style-type: none"> - This area will be hard to control due to the volume of flow in this area. The fence should be toed in and an additional check dam placed downgradient. The area should also be revegetated ASAP to prevent sediment migration. 7/21-7/28/05 - Extend the silt fence to enclose the pile if not already done so. 7/21-7/28/05 - Washouts should continue to take place only in designated areas. 7/28/05
	<ul style="list-style-type: none"> - Silt fence still requires repair/toeing-in at several locations along the access road. 7/28/05 - Materials have been placed on and beyond the silt fence in this area. The fence serves as a limit of work and should not be impacted. 7/28/05 - Silt fence near the caisson was also still overtopped here in one spot. 7/21-7/28/05 	<ul style="list-style-type: none"> - Maintain silt fence where necessary. 7/28/05 -Remove materials, including any brush and chips from areas beyond the silt fence per the D&M plan. - Perform regular “good housekeeping” to remove leftover materials and clean up the workspace. 7/28/05 - Repair fence and pull back sediment. 7/21-7/28/05
	<ul style="list-style-type: none"> - Bare soil at the vault installation near Steck’s is well contained for the most part but due to a slight slope here, a check dam installed here would help prevent sedimentation downgradient. 7/21-7/28/05 	<ul style="list-style-type: none"> - Place a silt fence or haybale check dam downgradient from any exposed soil if sedimentation becomes an issue. 7/28/05

Areas of Inspection	Observation	Recommended Action
Route 58	<ul style="list-style-type: none"> - Bare soil and clearing of vegetation was noted at the handhole installation on either side of the driveway at #123. The silt fence here had several areas with gaps underneath. 7/21-7/28/05 - Be sure that catch basins or inlets and swales in the vicinity of sawcutting and slurry muds are well protected. 7/28/05 	<ul style="list-style-type: none"> - The silt fence should be toed in ASAP due to wetlands immediately on the other side of the fence if not already done so. 7/21-7/28/05 - Any areas of bare soil must be temporarily restored and erosion controls must be maintained. 7/28/05
	Gallows Hill Road and Rt. 107 (Lonetown Rd) <ul style="list-style-type: none"> - The fence near #116 Gallows Hill has been repaired, but the pull-off with loose stone and sediment remains. 7/28/05 - The issue near #42 Gallows Hill Road was not observed as an issue this week but fence near #84 must be toed in as sediment was noted getting through. 7/28/05 - The original pull-off storage area has some sedimentation that is occurring along the roadway shoulder. 7/6-7/28/05 - Redding Country Club pond still requires spot repairs of the silt fence before active work approaches. 7/21-7/28/05 - A small, difficult to see spot under the silt fence at the intersection of Rt. 107 and Gallows Hill should also be toed in where stormwater has flowed through. 7/6/05-7/28/05 A pond is located at the base of the grade and sediment may be an issue, especially now that active work is here. 7/28/05 	<ul style="list-style-type: none"> -Active work is not located in the vicinity but maintain the fence until the area is restored. 7/28/05. - The fence should be repaired/toed-in ASAP. 7/28/05 - The original silt fence should be extended to the edge of the road or a check dam should be placed to prevent the sediment from entering a swale here. 7/6-7/28/05 -Active work is coming this way and silt fence should be repaired/toed prior to trench work in this area. 7/21-7/28/05 - Maintain and toe-in silt fence ASAP as active work has arrived here. 7/28/05 - Be sure that catch basins or inlets and swales in the vicinity of sawcutting and slurry muds are well protected. 7/28/05

Areas of Inspection	Observation	Recommended Action
Broad Street and Rt. 7, Norwalk	<p>-Silt fence is in good shape in most locations but a few spots are in some disrepair. 7/14-7/28/05</p> <p>- Trenching, conduit installation and vault installation is ongoing along Rt. 7 during the night work. Adjacent areas are of commercial development with few wetland resources. 7/28/05</p>	<p>- Maintain and toe-in silt fence as necessary until the ROW stabilizes. 7/28/05</p> <p>- Perform regular “good housekeeping” to remove leftover materials and clean up the workspace. 7/28/05</p> <p>- Be sure that catch basins in the vicinity of sawcutting and slurry muds are well protected. 7/28/05</p>
Contaminated Soils	<p>- Contaminated soil is being stored and labeled separately from that considered “background polluted”. Contaminated soils are eventually brought off site to an O&G facility in Bridgeport. Water from contaminated soils are sent to frac trucks and tanks.</p> <p>- Work at the corner of Lonetown Rd. and Gallows Hill is in an area specifically identified as contaminated. 7/28/05</p> <p>- Occasionally, soils are being stored temporarily at Redding Yard until they are trucked to Bridgeport or the landfill.</p>	<p>- All soils appear to be handled appropriately. 7/28/05</p> <p>- It has been determined that the Redding landfill will use all soils from the roadways in Redding that are considered clean, (based on acceptable RSR levels), as daily cover. 7/14-7/28/05</p>
Adjacent Wetlands and Waterways	<p>- It appears some sandy bars were deposited in the wetlands and streams down the steep grade near the ROW at the Bethel Ed Park. It is difficult to tell whether this came from the project but it is apparent a lot of water is running from the ROW. 7/28/05</p> <p>- Sediment had been noted in wetlands and a stream adjacent to the Redding Yard as a result of wash water to a catch basin. 7/21/05</p> <p>-Silt fence at the small problem areas on Gallows Hill were repaired. 7/28/05</p> <p>- Materials were noted on and over the silt fence near the Hoyts</p>	<p>-The amount of sand is fairly minor and would be more disruptive to remove at this point due to the grade (and may also be from the stream deposition). However, all silt fence controls here should be repaired and strengthened ASAP. 7/28/05</p> <p>- See storage yard section for more information. 7/21/05</p> <p>- Silt fence should be seen and treated as the limits of work and it should not be impacted by workspace in order to</p>

Areas of Inspection	Observation	Recommended Action
	Hill transition structure location and in several other locations. 7/28/05	protect wetlands beyond. Brush should also not be piled here in accordance with the D&M plan. 7/28/05
Staging, Storage, and Parking Areas	<p>- The original pull-off on the side of Gallows Hill Rd still has silt fence is well in place but sediment has washed to the shoulder of the roadway where the fence does not cover. 7/6-7/28/05</p> <p>- In Redding Town Yard, soil excavate is only temporarily stored here until it can be trucked for disposal in the O&G facility in Bridgeport or the Redding landfill. 7/28/05</p> <p>- Concrete washouts are also taking place within the Redding yard in a specified location and the area was under control at the time of inspection. New signage was placed to limit excessive water use but it was not confirmed if a check dam was placed at the discharge pipe from the catch basin. 7/28/05</p> <p>- A storage area for materials, conduit and equipment is in use at the Bethel Educational Park near the RTJ School. 7/6-7/21/05</p>	<p>- A check dam of fence or haybales should be placed or the silt fence line extended to the roadway here. 7/6-7/28/05</p> <p>- There are no current issues but if the piles progress beyond the bins, haybales should be placed down-gradient of the pile unless this is in the way of active equipment movement. 7/28/05</p> <p>- The bin should continue to be emptied regularly to prevent escape of the wash water and an emergency overflow check dam in place. 7/28/05</p> <p>- None at this time- well contained. 7/21/05</p>
State species of concern, threatened and endangered species	- No species of concern are located in this area of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	-Although significant clearing on the edge of roadways has not been necessary, there are areas where bare soil remains, especially near vaults, handholes and the ROW. Many of these areas are sitting for several weeks without temporary seeding, mulch or stabilization. 7/21-7/28/05	<p>- The D&M plan requires that disturbed areas to be left for more than 21-30 days before work returns here should be temporarily stabilized with mulch or seed within 7-14 days. 7/21-7/28/05</p> <p>- The restoration crews should be sent out more frequently to</p>

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	-The cleared ROW at Bethel Ed Park should be restored and seeded temporarily where work is complete. Revegetation would reduce sedimentation. 7/21-7/28/05.	areas which will not be re-disturbed in these time frames 7/21-7/28/05. - This is especially important where high stormwater volume is leaving the ROW. 7/21/05
Dewatering	- Almost all dewatering discharge along the route is being directed to frac trucks or tanks due to concerns about the polluted soils. 7/21-7/28/05	- It appears that the storage and disposal solution will continue due to concerns about the background pollutants in soils, even in those not considered contaminated. 7/21-7/28/05 It may be important to determine total daily volumes of water removal and evaluate whether this is a stress to the watershed or not a significant impact. 7/21-7/28/05
Blasting	- No blasting is occurring in any areas at this time.	- None at this time.
Spills and Material Storage	- A new designated concrete washout corral was constructed at Bethel Ed. Park. 7/28/05 -Leaks were not noted from the machinery during this inspection. A report of any leaks or spills that reach the ground and occur during the week will be provided to BSC from internal project inspectors 6/15-7/28/05 - Catch basins, inlets and swales should be protected especially in any area with sawcutting activities. Slurry muds are highly mobile and can reach inlets hundreds of feet away when conditions are right. 7/21-7/28/05	-Continue to make sure concrete washouts are restricted to designated areas. This should be sure to continue. 7/28/05 - Equipment and materials should not be stored in wooded areas unless it is designated for storage. 7/28/05 - The contractors should remain vigilant about securing and handling fuel containers. Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. Check equipment status on a regular basis and keep spill kits on hand. Report spills immediately, even if they are being controlled.
Additional		

Areas of Inspection	Observation	Recommended Action
Observations		

**Next likely scheduled
inspection:**

Thursday, August 4, 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature:

Diana Walden for Don Ukers



115 kV (Broad Street): Some areas along the silt fence at the edge of the ROW could use repair until the vegetation has fully reestablished. 7/28/05



115 kV (Gallows Hill Road, Redding): The trenching and conduit installation has reached the intersection of Gallows Hill



115 kV (Rt. 58, Bethel): View of the trench being flow filled and concrete being poured near reached the and Rt. 107. 7/28/05



115 kV (Route 58, near Hoyts Hill- Transition Pole): Soil is still overtopping the silt fence near the caisson drilling (photo on left). Repairs are still needed to the silt fence along the access road. (photo on right)
7/28/05



Soil has been pulled back from the silt fence and the trench has been backfilled in the ROW near the RT Johnson school (photo on left). View of the ROW past the Bethel Middle School (photo on right). 7/28/05



115kV (Bethel Education Park) Brush was piled beyond the limits of the silt fence. Make sure brush and mulch/wood chips are not placed in any wetland areas (photo on left). View of the caisson in place at the southern end of the ROW (photo on right). 7/28/05



A second row of silt fence was installed to encompass disturbed soil but it must be extended to meet the first row of fence. 7/28/05



A concrete washout corral was built in the Education Park to handle this area's washouts. Continue to maintain when necessary. 7/28/05



115kV (Redding Town Yard): The concrete washout area here has been placed with signage to prevent excess water that would quickly fill up the station. 7/28/05